

MILITARY SPECIFICATION

SWITCHES, TOGGLE, ENVIRONMENTALLY SEALED;

GENERAL SPECIFICATION FOR

This amendment forms a part of Military Specification MIL-S-3950F, dated 14 February 1976, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 6

* 3.7.2, delete and substitute:

"3.7.2 Terminal identification. When specified (see 3.1), terminals shall be marked in accordance with figure 1. Terminal positions not used need not be identified. Terminal marking on the side of the case is permissible."

PAGE 7

4.5.1, delete and substitute:

"4.5.1 Sample. For qualification inspection, the sample size shall be as specified in table II and the appendix to this specification. The sample units which have been subjected to qualification inspection shall be forwarded to the preparing activity."

PAGE 8

TABLE II, first column under "2 switches for each voltage, current and frequency": Delete "8" and "9"; delete "10", "11", "12", "13", "14", "15", and "16", and substitute "8", "9", "10", "11", "12", "13", and "14", respectively.

TABLE II, column 1: Delete "Electrical overload and endurance" and substitute "Electrical overload, electrical endurance, intermediate current, low-level life, and temperature rise".

PAGE 9

4.7.1.2, line 3: Delete "general level III" and substitute "general level II".

PAGE 10

4.7.2.1, delete and substitute:

"4.7.2.1 Group B inspection. Group B inspection shall be completed in accordance with table IIIa within 1 year after initial qualification and within each 3-year period thereafter. When a manufacturer has switches qualified under various MS military standards or military specification sheets, the qualifying activity may authorize group B tests that do not require redundant testing on similar features. Group B inspection shall be performed on sample units that have been produced, using the same manufacturing facilities and processes normally used in production and which have passed group A inspection. A manufacturer's normal quality control tests, production tests, and environmental tests may be used to fulfill all or part of group B inspection; however, all of group B inspection shall be completed as specified. Data used may be accumulated within the previous 24 months."

4.7.2.1.1, delete and substitute:

"4.7.2.1.1 Sampling plan. The sampling plan and test procedures shall be as specified in the appendix to this specification. The sample units shall be selected from current production. If switches are not in production, they may be selected from stock; however, the switches shall be date coded within the past year. When there has been no production of a particular type of switch for a 3-year period, sample units shall be selected from the next production lot presented for acceptance and for each subsequent 3-year period."

MIL-S-3950F
AMENDMENT 2

4.7.2.1.2: Delete "group C" and substitute "group B".

4.7.2.1.3, line 1, 7, and 10: Delete "group C" and substitute "group B".

Following 4.7.2.1.3, add table IIIa:

TABLE IIIa. Group B inspection.

Inspection	Requirement paragraph	Test paragraph	Specimen									
			1	2	3	4	5	6	7	8	9	10
Solderability - - - - -	3.6.1	4.8.2	X	X								
Mechanical endurance - - - - -	3.6.9	4.8.10	X	X								
Electrical overload, electrical endurance, intermediate current, low level life, and temperature rise - - - - -	3.6.10	4.8.11										
Overload circuit - - - - -		4.8.11.1					X	X	X	X		
Resistive load (ac) <u>1/</u> - - - - -		4.8.11.2					X	X				
Inductive load (altitude) <u>2/</u> - - - - -		4.8.11.3							X	X		
Life, low level - - - - -		4.8.11.6									X	X
Temperature rise - - - - -		4.8.11.7					X	X				
Contact voltage drop - - - - -	3.6.7	4.8.8	X	X								
Shock - - - - -	3.6.13	4.8.14			X	X						
Salt spray (corrosion) - - - - -	3.6.14	4.8.15			X	X						
Dielectric withstanding voltage (at atmospheric pressure) - - - - -	3.6.8	4.8.9.1					X	X	X	X		
Examination of product - - - - -	3.1	4.8.1	X	X	X	X	X	X	X	X	X	X
Switching characteristics - - - - -	3.6.3	4.8.4	X	X	X	X	X	X	X	X	X	X
Switch sealing <u>3/</u> - - - - -	3.6.18	4.8.19	X	X	X	X	X	X	X	X	X	X

1/ Test at 115 volts, 60 Hz, 71°C.

2/ Test at 28 Vdc, 65,000 feet.

3/ Only the odd-numbered specimens shall be opened by the manufacturer.

4.7.3, lines 3, 7, and 8: Delete "group C" and substitute "group B".

PAGE 13

4.8.9(a): Delete "group C" and substitute "group B".

4.8.9(c)(1): Delete "group C" and substitute "group B".

4.8.9.1(a): Delete "group C" and substitute "group B".

PAGE 20

4.8.19.1(a), line 1: Delete "group C" and substitute "group B".
line 4: Delete "2.0 ±5" and substitute "2.0 ±0.5".

PAGE 21

4.8.19.1(b), line 4: Delete "2 ±5" and substitute "2.0 ±0.5".

PAGE 26

10.1: Delete "Group C" and substitute "group B".

20.2 Delete "Group C" and substitute "Group B".

20.2.1 Delete "table II" and substitute "table IIIa".

20.2.2, lines 3 and 5: Delete "table II" and substitute "table IIIa".

PAGE 28

* 30.2, Steel, MIL hardware: Delete "MS35333-121" and substitute "MS35333-126".

* 30.2, Cres, MIL hardware: Delete "None" and substitute "Can be replaced by MS35333-136".

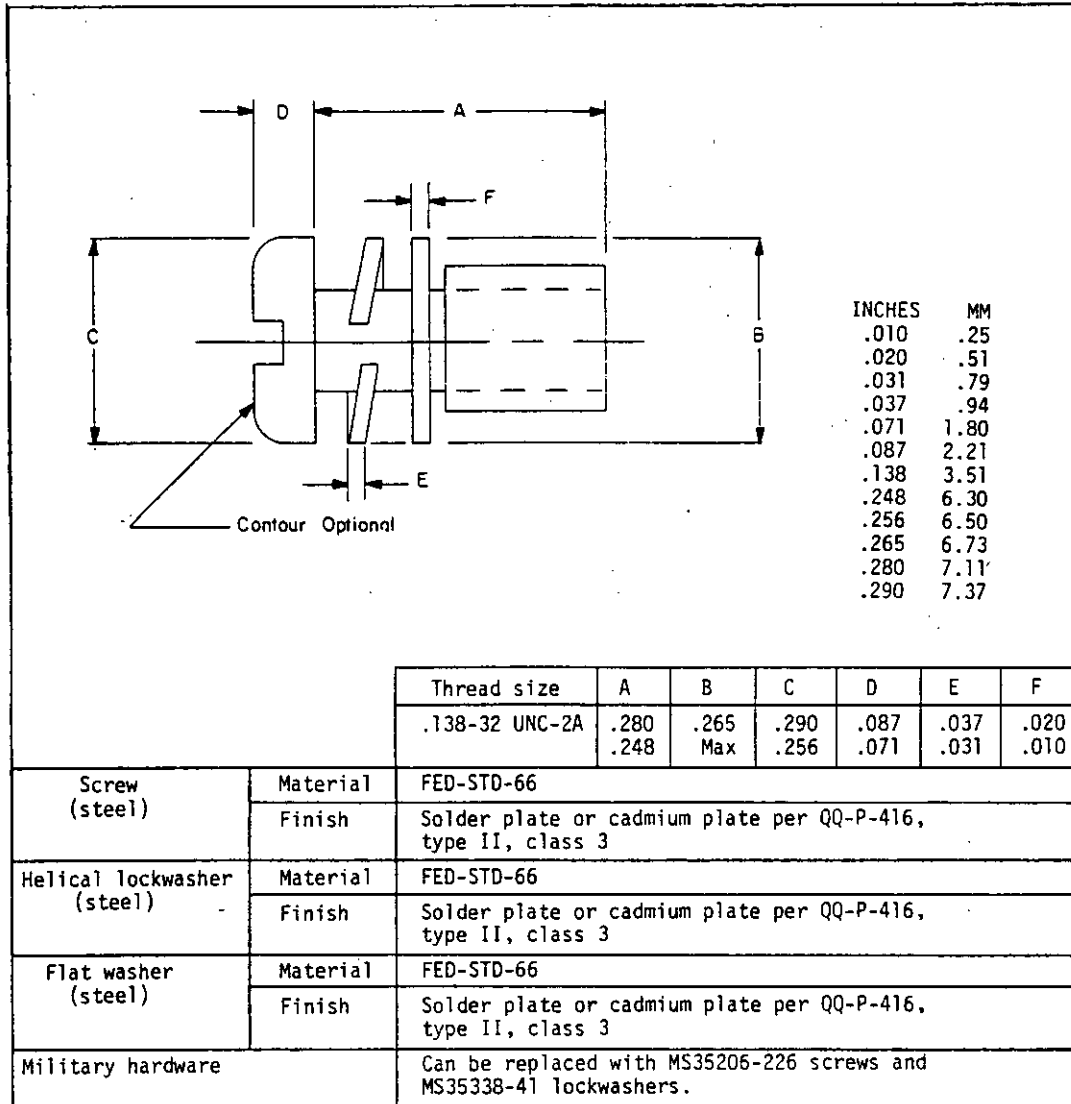
PAGE 30

* 40.3, note 1, delete and substitute:

"1. Captive washers shall rotate freely on the terminal screw."

* Following 40.3, add:

"40.4 Terminal screw with captive split ring lockwasher.



NOTE: The margins of this amendment are marked with asterisks to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Custodians:

Army - ER
Navy - AS
Air Force - 85

Preparing activity:
Air Force - 85

(Project 5930-1115)

Review activities:

Army - AV, MI
Navy - EC
Air Force - 11, 99
DLA - ES

User activities:

Army - AR
Navy - MC